RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	
Source:	1 Fulb 7/27/06
Date Processed by STIC:	7/27/06
•	

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 07/27/2006
PATENT APPLICATION: US/10/736,936A TIME: 10:32:16

Input Set : A:\Amended SL.ST25.txt

Output Set: N:\CRF4\07272006\J736936A.raw

```
3 <110> APPLICANT: Bristol-Myers Squibb Company
 5 <120> TITLE OF INVENTION: Novel Organic Anion Transport Proteins
 7 <130> FILE REFERENCE: DB23 DIV1
 9 <140> CURRENT APPLICATION NUMBER: US 10/736,936A
10 <141> CURRENT FILING DATE: 2003-12-16
12 <150> PRIOR APPLICATION NUMBER: US 09/575,081
13 <151> PRIOR FILING DATE: 2000-05-19
15 <150> PRIOR APPLICATION NUMBER: US 60/135,081
16 <151> PRIOR FILING DATE: 1999-05-20
18 <160> NUMBER OF SEQ ID NOS: 29
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2830
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (135)..(2207)
32 <400> SEQUENCE: 1
33 cggacgcgtg ggcggacgcg tgggtcgccc acgcgtccga cttgttgcag ttgctgtagg
                                                                          60
35 attctaaatc caggtgattg tttcaaactg agcatcaaca acaaaaacat ttgtatgata
                                                                         120
37 tctatatttc aatc atg gac caa aat caa cat ttg aat aaa aca gca gag
                                                                         170
38
                   Met Asp Gln Asn Gln His Leu Asn Lys Thr Ala Glu
39
41 gca caa cct tca gag aat aag aaa aca aga tac tgc aat gga ttg aag
                                                                         218
42 Ala Gln Pro Ser Glu Asn Lys Lys Thr Arg Tyr Cys Asn Gly Leu Lys
                               20
                                                                         266
45 atg ttc ttg gca gct ctg tca ctc agc ttt att gct aag aca cta ggt
46 Met Phe Leu Ala Ala Leu Ser Leu Ser Phe Ile Ala Lys Thr Leu Gly
47
49 gca att att atg aaa agt tcc atc att cat ata gaa cgg aga ttt gag
                                                                         314
50 Ala Ile Ile Met Lys Ser Ser Ile Ile His Ile Glu Arg Arg Phe Glu
53 ata tee tet tet ett gtt ggt ttt att gae gga age ttt gaa att gga
                                                                         362
54 Ile Ser Ser Ser Leu Val Gly Phe Ile Asp Gly Ser Phe Glu Ile Gly
                                        70
57 aat ttg ctt gtg att gta ttt gtg agt tac ttt gga tcc aaa cta cat
                                                                         410
58 Asn Leu Leu Val Ile Val Phe Val Ser Tyr Phe Gly Ser Lys Leu His
               80
61 aga cca aag tta att gga atc ggt tgt ttc att atg gga att gga ggt
                                                                         458
62 Arg Pro Lys Leu Ile Gly Ile Gly Cys Phe Ile Met Gly Ile Gly Gly
                               100
                                                                         506
65 gtt ttg act gct ttg cca cat ttc ttc atg gga tat tac agg tat tct
```

RAW SEQUENCE LISTING DATE: 07/27/2006 PATENT APPLICATION: US/10/736,936A TIME: 10:32:16

Input Set : A:\Amended_SL.ST25.txt

Output Set: N:\CRF4\07272006\J736936A.raw

66	Val	Leu	Thr	Ala	Leu	Pro	His	Phe	Phe	Met	Gly	Tyr	Tyr	Arg	Tyr	Ser	
67		110					115					120					
												aca					554
	-	GIU	Tnr	Asn		_	ser	ser	GIU	Asn		Thr	Ser	Thr	Leu		
	125	+~+	++=	a++		130	a++	++=	tas	ata	135	aqa	~~~	tas	aat	140	602
		_										Arg	_				602
75			 .		145	01		LCu	501	150	11011	**** 9	٠,٠٠٠		155		
_	ata	ata	qqa	aaa		tqt	tta	aaq	qaa		qqq	tca	tac			ata	650
												Ser					
79			_	160	_	_		_	165		_		_	170	_		
81	tat	gtg	ttc	atg	ggt	aat	atg	ctt	cgt	gga	ata	ggg	gag	act	ccc	ata	698
82	Tyr	Val	Phe	Met	Gly	Asn	Met		Arg	Gly	Ile	Gly	Glu	Thr	Pro	Ile	
83			175					180					185				
	-		_						_	_		gct		-			746
	vaı		Leu	GIY	Leu	Ser		тте	Asp	Asp	Pne	Ala	Lys	GIU	GIY	HIS	
87	+ a+	190	++~	+ - +	++-	~~+	195	++~	22+	~~~	a+ a	200 qca	a+~	~++	~~+		794
			_					_		_		Ala					734
	205	DCI	114 4		пси	210	110	c.(1	HOII	AΙα	215	AIG	MC.	110	Gry	220	
		att	aac	ttt	acc		qqa	tct	cta	ttt		aaa	atq	tac	ata		842
												Lys	-			_	
95			-		225		-			230		•		•	235	•	
97	att	gga	tat	gta	gat	cta	agc	act	atc	agg	ata	act	cct	act	gat	tct	890
98	Ile	Gly	Tyr	Val	Asp	Leu	Ser	Thr	Ile	Arg	Ile	Thr	Pro	Thr	Asp	Ser	
99				240					245					250			
																ttc	938
	_	y Trp		_	' Ala	Trp	Trp			Phe	e Leu	ı Val		_	Leu	ı Phe	
100			255		+	+-		260					265				006
											_	-				aat Asn	986
10		270		. DCI	. DCI	110	275			. FIIC	. nec	280		1 1111		, ASH	
				a aaa	qaa	aga			: tca	cto	r tct			: ato	cto	gaa	1034
					-	_				_		_				Glu	
11:	L 285	5				290)				295	5				300	
																aaa	1082
114	1 Thr	Ası	ı Asp	Glu	Lys	Asp	Gln	Thr	: Ala	Asr	ı Let	ı Thr	Ası	ı Glr	ı Gly	/ Lys	
11!					305					310					315		
																atc	1130
		1 116	Thr			val	Thr	. GT			GIr	ı Ser	Phe			: Ile	
119				320			- ~++	250	325		. ~++			330		caa	1178
					_		_					_	_	-	-	Gln	11/8
123			. ASI		, neu		. val	340		. val	. net	T TIEU	345		, п ег	. GIII	
		a ago			att	aat	: act			: tat	atio	: tto			ata	gag	1226
																Glu	
12		350		4 -	_	2	355			- 4 -		360	_				
				: ggt	caq	cct			aac	gct	aac			a tto	g gga	gtc	1274
																v Val	
			_	_					_								

.

RAW SEQUENCE LISTING DATE: 07/27/2006 PATENT APPLICATION: US/10/736,936A TIME: 10:32:16

Input Set : A:\Amended_SL.ST25.txt

Output Set: N:\CRF4\07272006\J736936A.raw

	1 365					370					375					380		
13	3 ata	acc	ata	cct	att	ttt	gca	agt	gga	atg	ttt	tta	gga	gga	tat	atc	1322	
13	4 Ile	Thr	Ile	Pro	Ile	Phe	Ala	Ser	Gly	Met	Phe	Leu	Gly	Gly	Tyr	Ile		
13	5				385					390					395			
13	7 att	aaa	aaa	ttc	aaa	ctg	aac	acc	gtt	gga	att	gcc	aaa	ttc	tca	tgt	1370	
13	8 Ile	Lys	Lys	Phe	Lys	Leu	Asn	Thr	Val	Gly	Ile	Ala	Lys	Phe	Ser	Cys		
13	9	_	_	400	-				405	_			•	410		_	•	
	1 ttt	act	act	ata	atq	tca	tta	tcc	ttt	tac	cta	tta	tat	ttt	ttc	ata	1418	
	2 Phe		_	_			_											
14			415					420		•			425	-	_			
	5 ctc	tat	gaa	aac	aaa	tca	att	acc	gga	cta	acc	atq	acc	tat	gat	gga	1466	
	6 Leu	_	_									_			_			
14		430			-1-		435		2			440		-1-		2		
	9 aat		cca	ata	aca	tct		aga	gat	ata	cca		tct	tat	tac	aac	1514	
	0 Asn																-5-1	
	1 445	11011		• • • •		450		••••	1101	• • • •	455	Deu	001	-1-	CyD	460		
	3 tca	aac.	tac	aat	tat		gaa	ant	caa	taa		cca	ata	tat	ana		1562	
	4 Ser																1502	
	5	лэр	Cys	ASII	465	nop	Olu	DCI	OIII	470	Gru	110		-	475	ASII		
	7 aat	aas	2+2	act		ata	taa	ccc	tat		~ ~=	aat				tas	1610 "	
	8 Asn								_		_		_				1010	
15		Gry	116	480	ıyı	116	Ser	FIU	485	Deu	лта	Gry	Cys	490	261	Ser		
		~~~	<del>+</del>		224	aat	2+2	a+a		+	224	+~~	20t		++~	~~~	1650	
	1 agt 2 Ser																1658	
16		GIY	495	цуѕ	цув	PIO	116	500	PIIE	ıyı	ASII	Cys	505	Cys	ьеи	Giu		
	s 5 gta	2.at		a+ a	~~~	224	262		+ > a	+ 42	~~~	ast		~~+	~~~	taa	1706	
	6 Val				_		_				_		_		_	_	1700	
16		510	GLY	ьеи	GIII	ASII	515	ASII	ıyı	ser	АТА	520	пеп	GIY	GIU	Cys		
			~~+	~~+	~a+	+~+		200			+				~~~	24.2	1754	
	9 cca	_	_	_	_	_								_	_		1754	
	0 Pro 1 525	Arg	ASP	Asp	Ara	530	IIII	Arg	пуѕ	Pne	535	Pile	Pne	vai	Ala	540		
		a+ a	++~	22+	++-		++-	+ ~+	~~~	a++		~~~	200	+	a - t		1802	
	3 caa 4 Gln																1802	
		vai	ьeu	ASII		PIIE	Pile	ser	Ala		GIY	GIY	IIII	ser		Vai		
17		~+~	-++	~++	545			~~~		550			+	~++	555	~+~	1050	
	7 atg 8 Met																1850	
		ьeu	тте		ьуѕ	тте	vai	GIII		GIU	ьeu	ьуѕ	ser		Ala	rea		
17				560					565					570			1000	
	1 ggt																1898	
	2 Gly				мес					ьeu	GIY	GIY		Leu	Ala	PIO		
18			575					580					585				1016	
	5 ata																1946	
	6 Ile		Pne	GLY	Ala	Leu		Asp	Thr	Tnr	Cys		ьys	Trp	ser	Tnr		
18		590	<b>.</b>				595					600					1001	
	9 aac																1994	
	0 Asn	Asn	Cys	Gly	Thr		Gly	Ser	Cys	Arg		Tyr	Asn	Ser	Thr			
	1 605					610					615					620		
	3 ttt																2042	
	4 Phe	Ser	Arg	Val	_	Leu	Gly	Leu	Ser		Met	Leu	Arg	Val		Ser		
19	5				625					630					635			

RAW SEQUENCE LISTING DATE: 07/27/2006
PATENT APPLICATION: US/10/736,936A TIME: 10:32:16

Input Set : A:\Amended_SL.ST25.txt

Output Set: N:\CRF4\07272006\J736936A.raw

									att									2090
		Leu	Val	Leu		Ile	Ile	Leu	Ile	-	Ala	Met	Lys	Lys	-	Tyr	Gln	
	199			~a+	640	t				645	~~~	- <del></del>	~+·		650			2120
									gaa Glu									2138
	202	GIU	пур	655	116	ASII	Ата	ser	660	ASII	Gry	261	vai	665	Asp	GIU	Ala	
		aác	tta		t.cc	tta	aat	aaa	aat	aaa	cat	ttt	atc		tct	act	aaa	2186
-									Asn							_		2100
	207		670					675		-1-			680				1	
			gat	agt	gaa	aca	cat	tgt	taag	gggg	iga a	aaaaa	aagco	ca ct	ttate	gctte	C	2237
		Ala							-		_		_			_		
	211	685					690											
			_				_	_		_	_	_		_			cctggt	2297
												_				_	aactta	2357
										_	_		_				ctacat	2417
			_			_							_				gttact	2477
								_									atgagt	2537
											_						gaaatg ggcctg	2597 2657
			_								_	_				-	tatttc	2717
		_	-	-			_				_						acattt	2777
		-	-			_			ttcca		_		_			_		2830
		<210					•				•	,						
	235	<213	1> L	ENGT	H: 69	91												
	236	<212	2> T	YPE:	PRT													
	237	<213	3 > OI	RGAN	ISM:	Homo	o sap	piens	S									
		<400		_														
			Asp	Gln	Asn		His	Leu	Asn	Lys		Ala	Glu	Ala	Gln		Ser	
	242		3	<b>T</b>	<b>.</b>	5 ml	3	<b></b>	<b>~</b>	3	10	<b>.</b>	<b>.</b>	36-4	D1	15	*1-	
	245	GIU	Asn	ьуѕ	ьуs 20	Thr	Arg	Tyr	Cys		GIY	ьeu	ьys	мет		ьeu	Ala	
		λla	T.011	Sor		Sar	Dha	т1Д	Ala	25 Lve	Thr	T.011	Glaz	7.7 -	30 Tla	Tla	Mat	
	250	AIG	Бец	35	пец	Der	FIIC	116	40	БуБ	1111	пец	GIY	45	110	110	Mec	
		Lvs	Ser		Ile	Ile	His	Ile	Glu	Ara	Arg	Phe	Glu		Ser	Ser	Ser	
	254	_	50					55		5	5		60					
	257	Leu	Val	Gly	Phe	Ile	Asp	Gly	Ser	Phe	Glu	Ile		Asn	Leu	Leu	Val	
	258	65					70					75	_				80	
	261	Ile	Val	Phe	Val	Ser	Tyr	Phe	Gly	Ser	Lys	Leu	His	Arg	Pro	Lys	Leu	
	262					85					90					95		
		Ile	Gly	Ile	_	Cys	Phe	Ile	Met	_	Ile	Gly	Gly	Val			Ala	
	266	_	_	1	100	_,			_	105	_	_	_	_	110		_	
		ьeu	Pro		Pne	Pne	мет	GIY	Tyr	Tyr	Arg	Tyr	ser		GIU	rnr	Asn	
	270	Tle	λ c.~	115	G.~	Gl.	λαν	Ser	120 Thr	ee~	ጥኮ~	T 011	C~~	125	C	Len	Tle	
	274		130	ser.	ser	GIU	ASII	135	TIIT	Ser	TIIL	ьец	140	THE	cys	neu	TIE	
				Tle	Len	Ser	Leu		Arg	Ala	Ser	Pro		Tle	Val	Glv	Lvs	
		145	0111	-15	<u> L</u> Cu	501	150		9	u	JCI	155	Jiu	-10	<b>-</b> 41	O-y	160	
	281	Glv	Cvs	Leu	Lvs	Glu	Ser	Glv	Ser	Tvr	Met	Trp	Ile	Tvr	Val	Phe	Met	
	281 282	Gly	Cys	Leu	Lys	Glu 165	Ser	Gly	Ser	Tyr	Met 170	Trp	Ile	Tyr	Val	Phe 175	Met	

RAW SEQUENCE LISTING DATE: 07/27/2006
PATENT APPLICATION: US/10/736,936A TIME: 10:32:16

Input Set : A:\Amended_SL.ST25.txt
Output Set: N:\CRF4\07272006\J736936A.raw

285 Gly Asn Met Leu Arg Gly Ile Gly Glu Thr Pro Ile Val Pro Leu Gly 180 185 289 Leu Ser Tyr Ile Asp Asp Phe Ala Lys Glu Gly His Ser Ser Leu Tyr 195 200 293 Leu Gly Ile Leu Asn Ala Ile Ala Met Ile Gly Pro Ile Ile Gly Phe 215 297 Thr Leu Gly Ser Leu Phe Ser Lys Met Tyr Val Asp Ile Gly Tyr Val 230 235 301 Asp Leu Ser Thr Ile Arg Ile Thr Pro Thr Asp Ser Arg Trp Val Gly 245 250 305 Ala Trp Trp Leu Asn Phe Leu Val Ser Gly Leu Phe Ser Ile Ile Ser 260 265 309 Ser Ile Pro Phe Phe Phe Leu Pro Gln Thr Pro Asn Lys Pro Gln Lys 275 280 313 Glu Arg Lys Ala Ser Leu Ser Leu His Val Leu Glu Thr Asn Asp Glu 295 300 317 Lys Asp Gln Thr Ala Asn Leu Thr Asn Gln Gly Lys Asn Ile Thr Lys 310 315 321 Asn Val Thr Gly Fire Phe Gln Ser Phe Lys Ser Ile Leu Thr Asn Pro 325 .... 330 325 Leu Tyr Val Met Phe Val Leu Leu Thr Leu Leu Gln Val Ser Ser Tyr 340 345 329 Ile Gly Ala Phe Thr Tyr Val Phe Lys Tyr Val Glu Gln Gln Tyr Gly 355 360 333 Gln Pro Ser Ser Lys Ala Asn Ile Leu Leu Gly Val Ile Thr Ile Pro 375 337 Ile Phe Ala Ser Gly Met Phe Leu Gly Gly Tyr Ile Ile Lys Lys Phe 390 395 341 Lys Leu Asn Thr Val Gly Ile Ala Lys Phe Ser Cys Phe Thr Ala Val 405 410 345 Met Ser Leu Ser Phe Tyr Leu Leu Tyr Phe Phe Ile Leu Cys Glu Asn 420 425 349 Lys Ser Val Ala Gly Leu Thr Met Thr Tyr Asp Gly Asn Asn Pro Val 435 440 353 Thr Ser His Arg Asp Val Pro Leu Ser Tyr Cys Asn Ser Asp Cys Asn 455 357 Cys Asp Glu Ser Gln Trp Glu Pro Val Cys Gly Asn Asn Gly Ile Thr 470 475 361 Tyr Ile Ser Pro Cys Leu Ala Gly Cys Lys Ser Ser Ser Gly Asn Lys 485 490 365 Lys Pro Ile Val Phe Tyr Asn Cys Ser Cys Leu Glu Val Thr Gly Leu 500 505 369 Gln Asn Arg Asn Tyr Ser Ala His Leu Gly Glu Cys Pro Arg Asp Asp 520 373 Ala Cys Thr Arg Lys Phe Tyr Phe Phe Val Ala Ile Gln Val Leu Asn 535 540 377 Leu Phe Phe Ser Ala Leu Gly Gly Thr Ser His Val Met Leu Ile Val 550 381 Lys Ile Val Gln Pro Glu Leu Lys Ser Leu Ala Leu Gly Phe His Ser

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/27/2006
PATENT APPLICATION: US/10/736,936A TIME: 10:32:17

Input Set : A:\Amended_SL.ST25.txt

Output Set: N:\CRF4\07272006\J736936A.raw

### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 33,594
Seq#:8; Xaa Pos. 33,594

#### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:29

VERIFICATION SUMMARY

DATE: 07/27/2006

PATENT APPLICATION: US/10/736,936A

TIME: 10:32:17

Input Set : A:\Amended_SL.ST25.txt

Output Set: N:\CRF4\07272006\J736936A.raw

L:1241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:748 L:1381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:2428 L:1492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32 L:1632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:592

A graduation